

Release notes for ENDF/B Development n-093_Np_238
evaluation



April 26, 2017

- psyche Warnings:

- Strength function in URR not in agreement with PSYCHE's expectations
 $FILE\ 2 / SECTION\ 151 / ISOTOPE\ MASS = 238. L = 0 / STRENGTH\ FUNCTION\ IS\ 1.11517E-04 / AVERAGE\ GAMMA\ WIDTH\ 5.00000E-02 / LIES\ OUTSIDE\ LIMITS\ 1.00000E-02\ TO\ 5.00000E-02\ EV.\ (0):\ URR\ str.\ ftn.$

```
FILE 2
SECTION 151
ISOTOPE MASS = 238. L = 0
STRENGTH FUNCTION IS 1.11517E-04
AVERAGE GAMMA WIDTH 5.00000E-02
... [1 more lines]
```

- fudge-4.0 Warnings:

- Missing a channel with a particular angular momenta combination
 $resonances / resolved / MultiLevel_BreitWigner$ (Error # 0): *missingResonanceChannel*

WARNING: Missing a channel with angular momenta combination L = 0, J = 0.5 and S = 0.5 for "capture"

- Potential scattering hasn't converted, you need more L's!
 $resonances / resolved$ (Error # 1): *potentialScatteringNotConverged*

WARNING: Potential scattering hasn't converged by L=0 at E=6.65 eV, xs[0]/xs[0]=100.0% > 0.1%

- Cross section does not match sum of linked reaction cross sections
 $crossSectionSum$ label 0: total (Error # 0): *CS Sum*.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.35%

- The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
 $Section\ 1\ (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form\ 'eval':$ (Error # 0): *Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.00000e+00) is too small

- The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
 $Section\ 2\ (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form\ 'eval':$ (Error # 0): *Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (3.017496e-09) is too small

- The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
 $Section\ 3\ (total): / Form\ 'eval': / Component\ 0$ (Error # 0): *Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.00000e+00) is too small

- The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
 $Section\ 3\ (total): / Form\ 'eval': / Component\ 1$ (Error # 0): *Condition num.*

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Np238): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Np238): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 10 (n + (Np238_e1 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.604835e-09) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 11 (n + (Np238_e2 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.875924e-09) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 12 (n + (Np238_e3 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.622398e-10) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 13 (n + (Np238_e4 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (8.170795e-09) is too small
```

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 (n + (Np238_e5 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (2.938993e-09) is too small
```

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 (n + (Np238_e6 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (2.756494e-09) is too small
```

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 (n + (Np238_e7 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (5.188910e-09) is too small
```

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (n + (Np238_e8 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (1.133738e-09) is too small
```

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 18 (n + (Np238_e9 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (2.470923e-11) is too small
```

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 19 (n + (Np238_e10 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (8.590155e-10) is too small
```

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 20 (n + (Np238_e11 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (1.843682e-09) is too small
```

23. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 21 (n + (Np238_e12 -> Np238 + gamma)): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (2.186419e-09) is too small
```

24. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 22 ($n + (Np238_e13 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (1.650136e-09) is too small
25. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 23 ($n + (Np238_e14 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (4.523108e-09) is too small
26. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 25 ($n + (Np238_e16 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (6.677609e-09) is too small
27. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 26 ($n + (Np238_e17 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (2.304894e-09) is too small
28. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 27 ($n + (Np238_e18 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (1.443325e-10) is too small
29. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 28 ($n + (Np238_e19 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (1.162481e-09) is too small
30. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 29 ($n + (Np238_e20 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (3.077907e-09) is too small
31. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 30 ($n + (Np238_e21 \rightarrow Np238 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (4.329771e-09) is too small

32. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 31 ($n + (Np238_e22 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.452710e-09) is too small

33. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 32 ($n + (Np238_e23 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.101825e-09) is too small

34. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 33 ($n + (Np238_e24 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.685966e-09) is too small

35. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 34 ($n + (Np238_e25 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.546654e-09) is too small

36. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 35 ($n + (Np238_e26 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.627124e-09) is too small

37. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 36 ($n + (Np238_e27 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.781181e-11) is too small

38. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 37 ($n + (Np238_e28 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.123240e-09) is too small

39. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 38 ($n + (Np238_e29 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.545862e-09) is too small

40. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 39 ($n + (Np238_e30 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (9.174527e-10) is too small

41. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 40 ($n + (Np238_e31 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (7.477780e-09) is too small

42. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 41 ($n + (Np238_e32 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.602718e-09) is too small

43. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 42 ($n + (Np238_e33 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.035352e-09) is too small

44. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 43 ($n + (Np238_e34 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.368870e-09) is too small

45. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 44 ($n + (Np238_e35 \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.382596e-09) is too small

46. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 45 ($n + (Np238_c \rightarrow Np238 + \gamma)$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

47. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 46 ($Np239 + \gamma$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

48. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 46 ($Np239 + \gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

49. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 47 ($n + Np238$ [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

50. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 48 ($n[\text{multiplicity:}'energyDependent', \text{emissionMode:}'prompt'] + n[\text{emissionMode:}'6 \text{delayed}] + \gamma [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

51. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 49 ($n[\text{multiplicity:}'energyDependent', \text{emissionMode:}'prompt'] + n[\text{emissionMode:}'6 \text{delayed}] + \gamma [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

52. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 50 ($n[\text{multiplicity:}'energyDependent', \text{emissionMode:}'prompt'] + n[\text{emissionMode:}'6 \text{delayed}] + \gamma [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

53. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 51 ($n[\text{multiplicity:}'energyDependent', \text{emissionMode:}'prompt'] + n[\text{emissionMode:}'6 \text{delayed}] + \gamma [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- **fudge-4.0 Errors:**

1. Energy range of data set does not match cross section range
reaction label 36: $n + (Np238_c \rightarrow Np238 + \gamma)$ / Product: $Np238_c$ / Decay product: γ_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

2. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
 WARNING: Domain doesn't match the cross section domain: (200000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
 WARNING: Domain doesn't match the cross section domain: (136621.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
 WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
 ... plus 78 more instances of this message
3. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (200000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
4. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (136621.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
5. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
6. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (233814.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
7. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
8. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (166233.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
9. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
10. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

- WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
11. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
12. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (216435.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
13. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (276686.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
14. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
15. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (244993.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
16. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
17. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (335415.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
18. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
19. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c ->Np238 + gamma) / Product: Np238_c / Decay product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

20. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (276686.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

21. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (233814.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

22. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (200000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

23. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

24. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (166233.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

25. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

26. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (244993.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

27. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

28. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

29. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (216435.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
30. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
31. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
32. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (200000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
33. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
34. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
35. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (233814.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
36. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (335415.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
37. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

38. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

39. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

40. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_am / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (244993.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

41. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_an / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (335415.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

42. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ao / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

43. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_aq / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (233814.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

45. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

46. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

47. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_at / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

48. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_au / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

49. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_av / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (244993.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

50. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_aw / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

51. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ax / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (276686.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

52. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ay / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

53. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_az / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

54. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ba / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bb / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

56. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bc / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
57. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bd / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
58. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_be / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
59. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bf / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
60. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bg / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
61. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bh / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
62. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bi / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
63. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (287011.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
64. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bk / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

65. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bl / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

66. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bm / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

67. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bn / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

68. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bo / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

69. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bp / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (325688.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

70. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bq / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

71. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_br / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

72. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bs / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

73. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bt / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

74. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bu / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

75. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bv / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

76. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bw / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

77. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bx / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

78. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_by / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

79. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_bz / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

80. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_ca / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

81. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_cb / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (400000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

82. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_cc / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)

83. Energy range of data set does not match cross section range
reaction label 36: n + (Np238_c -> Np238 + gamma) / Product: Np238_c / Decay product: gamma_cd / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (104180.0 -> 20000000.0)
84. Calculated and tabulated Q values disagree.
reaction label 37: n[multiplicity:'2'] + Np237 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -5464382.174713135 eV vs -5488320. eV!
85. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
86. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
87. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
88. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
89. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
90. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
91. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

92. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
93. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
94. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
95. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
96. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
97. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
98. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
99. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
100. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
102. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
103. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
104. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
105. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
106. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
107. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
108. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
109. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

110. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
111. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
112. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
113. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
114. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
115. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
116. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
117. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
118. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

119. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
120. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
121. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
122. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
123. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
124. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
125. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
126. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
127. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

128. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
129. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
130. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
131. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
132. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
133. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
134. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
135. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
136. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

137. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
138. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
139. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
140. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
141. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
142. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
143. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
144. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
145. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

146. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
147. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
148. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
149. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
150. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
151. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
152. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
153. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
154. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

155. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
156. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
157. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
158. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ak / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
159. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
160. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_al / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
161. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_am / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
162. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_am / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
163. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_an / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

164. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_an / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
165. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ao / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
166. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ao / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
167. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
168. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ap / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
169. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aq / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
170. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_aq / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
171. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
172. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_ar / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)

173. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
174. Energy range of data set does not match cross section range
reaction label 37: n[multiplicity:'2'] + Np237 + gamma / Product: gamma_as / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6000000.0 -> 20000000.0) vs (5511580.0 -> 20000000.0)
175. Calculated and tabulated Q values disagree.
reaction label 38: n[multiplicity:'3'] + Np236 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -12041728.46585083 eV vs -1.20657e7 eV!
176. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
177. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
178. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
179. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
180. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
181. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)

182. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
183. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
184. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
185. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
186. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
187. Energy range of data set does not match cross section range
reaction label 38: n[multiplicity:'3'] + Np236 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (12116800.0 -> 20000000.0)
188. Calculated and tabulated Q values disagree.
reaction label 39: n[multiplicity:'4'] + Np235 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -17778411.62606812 eV vs -1.78024e7 eV!
189. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
190. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)

191. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
192. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
193. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
194. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
195. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
196. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
197. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
198. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
199. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)

200. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
201. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
202. Energy range of data set does not match cross section range
reaction label 39: n[multiplicity:'4'] + Np235 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17877800.0 -> 20000000.0)
203. Calculated and tabulated Q values disagree.
reaction label 41: Np239 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 6239142.352294922 eV vs 6.2152e6 eV!
204. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 38: n + (Np238_c -> Np238 + gamma) total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 28.27%
205. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 39: n[multiplicity:'2'] + Np237 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.99%
206. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 40: n[multiplicity:'3'] + Np236 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
207. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 41: n[multiplicity:'4'] + Np235 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 100.00%
208. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0'] (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 222682628759.1013 eV vs 1.99553e8 eV!

209. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 222682628759.1013 eV vs 1.99553e8 eV!

210. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 222682628759.1013 eV vs 1.99553e8 eV!

211. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 222682628759.1013 eV vs 1.99553e8 eV!

212. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 47 (n + Np238 [angular distribution]): / Form 'eval': /LegendreLValue L=1 vs 1 (Error # 0): Bad evs

WARNING: 11 negative eigenvalues! Worst case = -3.446798e-05

- njoy2012 Warnings:

1. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

---message from hinit---mt19 has no spectrum
 mt18 spectrum will be used.

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

---message from hinit---mf6, mt 16 does not give recoil za= 93237
 one-particle recoil approx. used.

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 93236
 one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 93235
 one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt 51 does not give recoil za= 93238
one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

---message from hinit---mf6, mt 52 does not give recoil za= 93238
one-particle recoil approx. used.

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

---message from hinit---mf6, mt 53 does not give recoil za= 93238
one-particle recoil approx. used.

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

---message from hinit---mf6, mt 54 does not give recoil za= 93238
one-particle recoil approx. used.

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

---message from hinit---mf6, mt 55 does not give recoil za= 93238
one-particle recoil approx. used.

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

---message from hinit---mf6, mt 56 does not give recoil za= 93238
one-particle recoil approx. used.

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (10): HEATR/hinit (4)

---message from hinit---mf6, mt 57 does not give recoil za= 93238
one-particle recoil approx. used.

12. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (11): HEATR/hinit (4)

---message from hinit---mf6, mt 58 does not give recoil za= 93238
one-particle recoil approx. used.

13. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (12): HEATR/hinit (4)

---message from hinit---mf6, mt 59 does not give recoil za= 93238
one-particle recoil approx. used.

14. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (13): HEATR/hinit (4)

---message from hinit---mf6, mt 60 does not give recoil za= 93238
one-particle recoil approx. used.

15. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (14): HEATR/hinit (4)

```
---message from hinit---mf6, mt 61 does not give recoil za= 93238
one-particle recoil approx. used.
```

16. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (15): HEATR/hinit (4)

```
---message from hinit---mf6, mt 62 does not give recoil za= 93238
one-particle recoil approx. used.
```

17. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (16): HEATR/hinit (4)

```
---message from hinit---mf6, mt 63 does not give recoil za= 93238
one-particle recoil approx. used.
```

18. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (17): HEATR/hinit (4)

```
---message from hinit---mf6, mt 64 does not give recoil za= 93238
one-particle recoil approx. used.
```

19. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (18): HEATR/hinit (4)

```
---message from hinit---mf6, mt 65 does not give recoil za= 93238
one-particle recoil approx. used.
```

20. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (19): HEATR/hinit (4)

```
---message from hinit---mf6, mt 66 does not give recoil za= 93238
one-particle recoil approx. used.
```

21. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (20): HEATR/hinit (4)

```
---message from hinit---mf6, mt 67 does not give recoil za= 93238
one-particle recoil approx. used.
```

22. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (21): HEATR/hinit (4)

```
---message from hinit---mf6, mt 68 does not give recoil za= 93238
one-particle recoil approx. used.
```

23. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (22): HEATR/hinit (4)

```
---message from hinit---mf6, mt 69 does not give recoil za= 93238
one-particle recoil approx. used.
```

24. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (23): HEATR/hinit (4)

---message from hinit---mf6, mt 70 does not give recoil za= 93238
one-particle recoil approx. used.

25. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (24): HEATR/hinit (4)

---message from hinit---mf6, mt 71 does not give recoil za= 93238
one-particle recoil approx. used.

26. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (25): HEATR/hinit (4)

---message from hinit---mf6, mt 72 does not give recoil za= 93238
one-particle recoil approx. used.

27. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (26): HEATR/hinit (4)

---message from hinit---mf6, mt 73 does not give recoil za= 93238
one-particle recoil approx. used.

28. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (27): HEATR/hinit (4)

---message from hinit---mf6, mt 74 does not give recoil za= 93238
one-particle recoil approx. used.

29. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (28): HEATR/hinit (4)

---message from hinit---mf6, mt 75 does not give recoil za= 93238
one-particle recoil approx. used.

30. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (29): HEATR/hinit (4)

---message from hinit---mf6, mt 76 does not give recoil za= 93238
one-particle recoil approx. used.

31. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (30): HEATR/hinit (4)

---message from hinit---mf6, mt 77 does not give recoil za= 93238
one-particle recoil approx. used.

32. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (31): HEATR/hinit (4)

---message from hinit---mf6, mt 78 does not give recoil za= 93238
one-particle recoil approx. used.

33. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (32): HEATR/hinit (4)

---message from hinit---mf6, mt 79 does not give recoil za= 93238
one-particle recoil approx. used.

34. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (33): HEATR/hinit (4)

```
---message from hinit---mf6, mt 80 does not give recoil za= 93238
one-particle recoil approx. used.
```

35. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (34): HEATR/hinit (4)

```
---message from hinit---mf6, mt 81 does not give recoil za= 93238
one-particle recoil approx. used.
```

36. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (35): HEATR/hinit (4)

```
---message from hinit---mf6, mt 82 does not give recoil za= 93238
one-particle recoil approx. used.
```

37. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (36): HEATR/hinit (4)

```
---message from hinit---mf6, mt 83 does not give recoil za= 93238
one-particle recoil approx. used.
```

38. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (37): HEATR/hinit (4)

```
---message from hinit---mf6, mt 84 does not give recoil za= 93238
one-particle recoil approx. used.
```

39. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (38): HEATR/hinit (4)

```
---message from hinit---mf6, mt 85 does not give recoil za= 93238
one-particle recoil approx. used.
```

40. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (39): HEATR/hinit (4)

```
---message from hinit---mf6, mt 91 does not give recoil za= 93238
one-particle recoil approx. used.
```

41. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (40): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 93239
photon momentum recoil used.
```

42. There is a problem with the fission energy release.
heatr...prompt kerma (45): HEATR/nheat (3)

```
---message from nheat---changed q from 1.995530E+08 to 1.859740E+08
for mt 18
```

43. Only partial urr covariance data was given.
errorr...produce cross section covariances (0): ERRORR/resprx (5)

```
---message from respx---mf2 nls=1, but mf32 nls=0  
    continue with partial urr covariance data
```

44. No scattering radius uncertainty given.
errorr...produce cross section covariances (1): ERRORR/rpxlc12 (0)

```
---message from rpxlc12---no scattering radius uncertainty
```

45. Generic warning message
errorr...produce cross section covariances (2): Warning

```
---message from rpxlc12---resonance parameter loop done          351.5s
```

46. Generic warning message
errorr...produce cross section covariances (3): Warning

```
---message from rpxlc12---sensitivity calculation continues      351.6s
```

47. Generic warning message
errorr...produce cross section covariances (4): Warning

```
---message from rpxlc12---sensitivity calculation completed      351.7s
```